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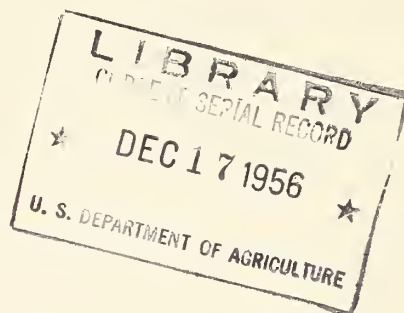
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Revised
A280.39
M34Am

AMS-128
(Supplement No. 7)

November 21, 1956

UNITED STATES DEPARTMENT OF AGRICULTURE
(U.S. Agricultural Marketing Service)
Cotton Division



γ FIBER AND SPINNING TEST RESULTS FOR SOME VARIETIES OF COTTON
GROWN BY SELECTED COTTON IMPROVEMENT GROUPS
CROP OF 1956 γ

Prepared in the Standards and Testing Branch

Table 1.--Results of classification, fiber tests, and carded yarn processing tests for specified varieties of cotton by state, market area, and period of harvest processed at a card production rate of 12-1/2 pounds per hour, crop of 1956

Test item	Parrott
	Oklahoma
	Mangum
	Midseason
<u>Raw Cotton Quality</u>	
Grade (official standards)	SM
Staple length-----inches:	29/32
Fiber length (Fibrograph):	
Upper half mean-----inches:	.89
Uniformity ratio-----	82
Micronaire-----reading <u>1</u> /:	4.6
Fiber fineness-----micrograms per in. <u>2</u> /:	4.8
Fiber maturity-----index <u>2</u> /:	78
Fiber tensile strength (Pressley):	
1/8" gauge-----index <u>3</u> /:	105
Zero gauge-----1,000 p.s.i.:	90
Nonlint content-----percent:	3.2
Color of raw cotton: <u>4</u> /	
Reflectance-----R _d :	74.3
Yellowness-----+b:	9.0
Sugar content-----percent:	0.3
Acid-alkaline value-----pH units <u>5</u> /:	6.3
<u>Processing Results</u>	
Picker and card waste-----percent:	9.6
Neps-----per 100 sq. in. of card web:	8
Yarn skein strength:	
8s-----pounds:	343
22s-----pounds:	107
Average break factor----- <u>7</u> /:	2549
Yarn appearance:	
8s-----grade:	B+
22s-----grade:	C+
Average index----- <u>8</u> /:	110

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Table 2.--Results of classification, fiber tests, and carded yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 9-1/2 pounds per hour, crop of 1956

Test item	Acala 4-42				
	California				
	Bakersfield:	Corcoran:	Firebaugh:	Fresno:	Madera:
	Midseason	Midseason	Midseason	Midseason	Midseason
<u>Raw Cotton Quality</u>					
Grade (official standards)	SIM	SIM	M+	M	SM
Staple length-----inches:	1-1/16	1-1/16	1-3/32	1-1/16	1-3/32
Fiber length (Fibrograph):					
Upper half mean-----inches:	1.08	1.08	1.06	1.08	1.04
Uniformity ratio-----	80	81	80	81	81
Micronaire-----reading 1/:	4.4	4.8	4.2	4.7	4.6
Fiber fineness-micrograms per in.2/:	4.6	4.8	4.3	4.5	4.8
Fiber maturity-----index 2/:	77	80	78	82	79
Fiber tensile strength (Pressley):					
1/8" gauge-----index 3/:	117	115	120	114	118
Zero gauge-----1,000 p.s.i.:	88	90	86	82	90
Nonlint content-----percent:	3.0	3.6	3.0	3.6	1.9
Color of raw cotton: 4/					
Reflectance-----R _d :	72.5	72.5	77.5	75.5	78.5
Yellowness-----+b:	7.6	6.9	8.0	7.6	7.5
Sugar content-----percent:	0.1	0.2	0.2	0.2	0.3
Acid-alkaline value-----pH units 5/:	7.3	7.2	6.5	6.6	6.7
<u>Processing Results</u>					
Picker and card waste-----percent:	8.8	9.6	8.4	8.5	6.6
Neps----per 100 sq. in. of card web:	15	7	13	10	9
Yarn skein strength:					
22s-----pounds:	125	124	126	125	130
50s-----pounds:	44	43	45	45	46
Average break factor-----7/:	2475	2439	2511	2500	2580
Yarn appearance:					
22s-----grade:	C+	C+	C+	C+	B
50s-----grade:	C	C	C	C	C+
Average index-----8/:	95	95	95	95	105

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Table 2.--Results of classification, fiber tests, and carded yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 9-1/2 pounds per hour, crop of 1956--Continued

Test item	Acala 4-42		Arizona 44	
	California		Arizona	
	Shafter	Tulare	Eloy	Yuma
	Midseason	Midseason	Early	Midseason
<u>Raw Cotton Quality</u>				
Grade (official standards)	SIM	SIM	M	M
Staple length-----inches	1-1/16	1-1/16	1-1/16	1-1/32
Fiber length (Fibrograph)				
Upper half mean-----inches	1.07	1.04	1.06	1.06
Uniformity ratio-----	81	81	81	79
Micronaire-----reading 1/	4.4	4.5	4.2	4.4
Fiber fineness---micrograms per in. 2/	4.4	4.7	4.1	4.5
Fiber maturity-----index 2/	78	78	79	79
Fiber tensile strength (Pressley):				
1/8" gauge-----index 3/	112	117	115	106
Zero gauge-----1,000 p.s.i.	87	88	87	91
Nonlint content-----percent	3.2	3.4	3.9	2.8
Color of raw cotton: 4/				
Reflectance-----Rd	74.6	71.7	73.0	73.5
Yellowness-----+b	7.5	8.0	8.5	8.5
Sugar content-----percent	0.2	0.2	0.3	0.2
Acid-alkaline value-----pH units 5/	7.1	7.3	6.5	7.1
<u>Processing Results</u>				
Picker and card waste-----percent	8.4	9.1	9.5	9.2
Neps-----per 100 sq. in. of card web	11	14	17	18
Yarn skein strength:				
22s-----pounds	124	125	122	109
50s-----pounds	44	44	43	36
Average break factor-----7/	2464	2475	2417	2099
Yarn appearance:				
22s-----grade	C+	C+	C+	C+
50s-----grade	C	C	C	D
Average index-----8/	95	95	95	85

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Table 2.--Results of classification, fiber tests, and carded yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 9-1/2 pounds per hour, crop of 1956--Continued

Test item	Coker 100 W			Deltapine 15	
	Alabama	Georgia		Alabama	Arkansas
	Huntsville	Baxley	Sandersville	Florence	Bradley
	Late	Late	Late	Late	Late
<u>Raw Cotton Quality</u>					
Grade (official standards)	M	SIM	SIM	SIM	SIM
Staple length-----inches:	1-1/16:	1-1/32:	1	1-1/16:	1
Fiber length (Fibrograph):					
Upper half mean-----inches:	1.09	.96	.93	1.03	.95
Uniformity ratio-----	81	73	75	80	79
Micronaire-----reading 1/:	4.5	3.9	4.2	4.1	4.4
Fiber fineness-micrograms per in.2/:	4.3	4.1	4.2	4.2	4.6
Fiber maturity-----index 2/:	81	75	78	78	78
Fiber tensile strength (Pressley):					
1/8" gauge-----index 3/:	102	93	94	98	97
Zero gauge-----1,000 p.s.i.:	80	77	82	77	86
Nonlint content-----percent:	2.1	3.8	3.5	4.6	4.1
Color of raw cotton: 4/					
Reflectance-----R _d :	72.7	71.0	69.5	70.5	70.3
Yellowness-----+b:	7.8	8.4	8.0	8.4	8.5
Sugar content-----percent:	0.2	0.0	0.0	0.1	0.0
Acid-alkaline value-----pH units 5/:	7.6	8.2	8.2	8.4	7.4
<u>Processing Results</u>					
Picker and card waste-----percent:	6.8	9.1	8.4	9.2	10.4
Neps-----per 100 sq. in. of card web:	14	19	12	11	11
Yarn skein strength:					
22s-----pounds:	120	109	107	115	105
50s-----pounds:	43	38	37	41	35
Average break factor-----1/:	2395	2149	2102	2290	2030
Yarn appearance:					
22s-----grade:	C+	C+	C+	C+	B
50s-----grade:	C+	C	C+	C	C
Average index-----8/:	100	95	100	95	100

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Table 2.--Results of classification, fiber tests, and carded yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 9-1/2 pounds per hour, crop of 1956--Continued

Test item	Deltapine 15				
	Arkansas				
	Leachville	Marked Tree	Marianna	Osceola	Pine Bluff
	Late	Late	Late	Late	Late
<u>Raw Cotton Quality</u>					
Grade (official standards)	M	SIM	M	M	SIM
Staple length-----inches	1-1/16	1-1/32	1-1/16	1-1/16	1-1/16
Fiber length (Fibrograph):					
Upper half mean-----inches	1.08	1.05	1.02	1.02	1.06
Uniformity ratio-----	81	80	80	80	79
Micronaire-----reading 1/	4.4	4.6	5.0	4.5	4.6
Fiber fineness-micrograms per in. 2/	4.3	4.7	5.0	4.6	4.6
Fiber maturity-----index 2/	80	80	81	79	79
Fiber tensile strength (Pressley):					
1/8" gauge-----index 3/	107	106	101	105	108
Zero gauge-----1,000 p.s.i.	80	84	84	84	81
Nonlint content-----percent	2.8	4.3	2.4	2.3	3.8
Color of raw cotton: 4/					
Reflectance-----Rd	72.3	71.5	72.3	75.4	71.5
Yellowness-----+b	7.5	7.4	8.4	7.5	8.0
Sugar content-----percent	0.2	0.1	0.1	0.1	0.2
Acid-alkaline value-----pH units 5/	6.5	7.3	7.4	7.3	7.1
<u>Processing Results</u>					
Picker and card waste-----percent	8.0	9.0	7.9	8.1	8.9
Neps----per 100 sq. in. of card web	11	23	13	15	13
Yarn skein strength:					
22s-----pounds	128	112	113	115	121
50s-----pounds	46	38	39	39	41
Average break factor-----7/	2558	2182	2218	2240	2356
Yarn appearance:					
22s-----grade	B	B	B	B	B
50s-----grade	C+	C+	C+	C	C+
Average index-----8/	105	105	105	100	105

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Table 2.--Results of classification, fiber tests, and carded yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 9-1/2 pounds per hour, crop of 1956--Continued

Test item	Deltapine 15			
	California	Louisiana		
	El Centro	Bossier City	Natchitoches	Shreveport
	Midseason	Late	Late	Late
<u>Raw Cotton Quality</u>				
Grade (official standards)	SM	SIM	IM	SIM
Staple length-----inches	1-1/32	1	1-1/32	1
Fiber length (Fibrograph):				
Upper half mean-----inches	1.04	.98	1.04	.98
Uniformity ratio-----	79	80	80	79
Micronaire-----reading 1/	5.0	4.0	4.3	4.4
Fiber fineness---micrograms per in. 2/	5.0	4.1	4.3	4.4
Fiber maturity-----index 2/	81	77	79	79
Fiber tensile strength (Pressley):				
1/8" gauge-----index 3/	114	102	102	101
Zero gauge-----1,000 p.s.i.	87	86	84	87
Nonlint content-----percent	2.7	3.7	5.0	2.4
Color of raw cotton: 4/				
Reflectance-----Rd	77.5	72.3	68.4	71.5
Yellowness-----+b	8.8	8.5	8.5	7.6
Sugar content-----percent	0.1	0.1	0.1	0.0
Acid-alkaline value-----pH units 5/	6.8	7.3	7.4	7.6
<u>Processing Results</u>				
Picker and card waste-----percent	7.0	9.6	11.1	8.5
Neps-----per 100 sq. in. of card web	7	17	12	12
Yarn skein strength:				
22s-----pounds	118	108	109	110
50s-----pounds	39	38	38	38
Average break factor-----7/	2273	2138	2149	2160
Yarn appearance:				
22s-----grade	B+	C+	B	B
50s-----grade	C+	C	C	C+
Average index-----8/	110	95	100	105

Table 2.--Results of classification, fiber tests, and carded yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 9-1/2 pounds per hour, crop of 1956--Continued

Test item	Deltapine 15					
	Mississippi					Tennessee
	Aberdeen : Midseason	Clarksdale : Late	Magee : Late	Tunica : Late	Covington : Late	
<u>Raw Cotton Quality</u>						
Grade (official standards)	SIM	SIM+	SIM	IM		SM
Staple length-----inches:	1	1-1/16	1-1/32	1-1/16		1-1/32
Fiber length (Fibrograph):						
Upper half mean-----inches:	.94	1.07	1.01	1.04		.98
Uniformity ratio-----:	79	79	78	79		82
Micronaire-----reading 1/:	4.4	4.8	4.2	4.1		4.6
Fiber fineness-micrograms per in.2/:	4.3	4.8	4.4	4.1		4.8
Fiber maturity-----index 2/:	79	81	76	77		79
Fiber tensile strength (Pressley):						
1/8" gauge-----index 3/:	94	105	97	103		100
Zero gauge-----1,000 p.s.i.:	83	80	82	79		83
Nonlint content-----percent:	3.3	2.9	3.2	4.4		2.4
Color of raw cotton: 4/						
Reflectance-----R _d :	69.6	72.3	69.4	69.8		68.3
Yellowness-----+b:	8.1	7.7	8.7	7.5		8.3
Sugar content-----percent:	0.1	0.1	0.0	0.2		0.2
Acid-alkaline value----pH units 5/:	8.2	7.4	8.8	7.0		6.9
<u>Processing Results</u>						
Picker and card waste-----percent:	9.5	8.4	9.7	9.7		7.9
Neps----per 100 sq. in. of card web:	8	8	8	21		9
Yarn skein strength:						
22s-----pounds:	104	122	105	117		114
50s-----pounds:	34	41	35	41		38
Average break factor-----7/:	1994	2367	2030	2312		2204
Yarn appearance:						
22s-----grade:	B	B+	B	C+		B
50s-----grade:	C+	C+	C	C		C+
Average index-----8/:	105	110	100	95		105

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Table 2.--Results of classification, fiber tests, and carded yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 9-1/2 pounds per hour, crop of 1956--Continued

Test item	Deltapine 15			Empire	Lankart 57
	Tennessee			Texas	Oklahoma
	Humboldt	Wynnbург		Brownfield	Altus
	Midseason	Midseason	Late	Midseason	Midseason
<u>Raw Cotton Quality</u>					
Grade (official standards)	SIM	SIM+	SIM+	IM	SM
Staple length-----inches	1-1/32	1-1/32	1-1/32	1	1-1/32
Fiber length (Fibrograph):					
Upper half mean-----inches	.96	1.04	1.02	1.04	1.01
Uniformity ratio-----	81	80	79	80	79
Micronaire-----reading 1/	4.2	4.3	4.2	3.8	4.6
Fiber fineness-micrograms per in.2/	4.2	4.5	4.4	4.1	5.0
Fiber maturity-----index 2/	76	77	77	73	78
Fiber tensile strength (Pressley):					
1/8" gauge-----index 3/	94	100	100	97	99
Zero gauge-----1,000 p.s.i.	81	79	77	73	72
Nonlint content-----percent	3.1	2.8	3.6	4.4	2.0
Color of raw cotton: 4/					
Reflectance-----Rd	72.3	73.5	72.3	71.4	75.0
Yellowness-----+b	8.1	7.8	7.0	8.1	9.2
Sugar content-----percent	0.2	0.2	0.2	0.3	0.3
Acid-alkaline value----pH units 5/	7.1	6.7	6.9	6.7	6.6
<u>Processing Results</u>					
Picker and card waste-----percent	10.2	7.4	7.8	9.6	7.6
Neps----per 100 sq. in. of card web	10	11	18	22	10
Yarn skein strength:					
22s-----pounds	106	115	117	110	114
50s-----pounds	36	40	40	40	38
Average break factor-----7/	2066	2265	2287	2210	2204
Yarn appearance:					
22s-----grade	B	B	C+	C+	B
50s-----grade	C+	C+	C	C	C+
Average index-----8/	105	105	95	95	105

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Table 2.--Results of classification, fiber tests, and carded yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 9-1/2 pounds per hour, crop of 1956--Continued

Test item	Plains	Stardel	Stoneville 7	Stoneville 2B
	Alabama	Louisiana	Arkansas	Arkansas
	Centre	Gillman	Leachville	McGehee
	Late	Late	Late	Late
<u>Raw Cotton Quality</u>				
Grade (official standards)	SIM	SIM	M	M
Staple length-----inches	1	1-1/16	1-1/16	1-1/32
Fiber length (Fibrograph):				
Upper half mean-----inches	.94	1.03	1.04	1.00
Uniformity ratio-----	81	80	79	80
Micronaire-----reading 1/	4.6	4.5	4.4	4.2
Fiber fineness---micrograms per in. 2/	4.6	4.6	4.8	4.6
Fiber maturity-----index 2/	80	79	77	75
Fiber tensile strength (Pressley):				
1/8" gauge-----index 3/	96	118	95	103
Zero gauge-----1,000 p.s.i.	81	99	78	84
Nonlint content-----percent	2.8	3.0	2.5	4.3
Color of raw cotton: 4/				
Reflectance-----Rd	75.4	72.0	77.1	75.8
Yellowness-----+b	8.1	7.6	7.5	7.6
Sugar content-----percent	0.1	0.1	0.2	0.2
Acid-alkaline value-----pH units 5/	8.1	7.5	7.1	6.8
<u>Processing Results</u>				
Picker and card waste-----percent	8.5	7.7	7.8	8.8
Neps-----per 100 sq. in. of card web	11	10	10	10
Yarn skein strength:				
22s-----pounds	111	123	109	111
50s-----pounds	38	42	36	38
Average break factor-----7/	2171	2403	2099	2171
Yarn appearance:				
22s-----grade	B	B	B	B
50s-----grade	B	C+	B	C
Average index-----8/	110	105	110	100

For footnotes see page 14

Table 3.--Results of classification, fiber tests, and carded and combed (in parentheses) yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 6-1/2 pounds per hour, crop of 1956

Test item	Acala 1517 C		Acala 4-42		Coker 124	
	Texas		California		Mississippi	
	El Paso	Pecos	Fresno	Heathman	Lake Cormorant	
	Midseason	Late	Midseason	Late	Late	
<u>Raw Cotton Quality</u>						
Grade (official standards)	SM	SM	M	LM	LM+	
Staple length-----inches:	1-1/8	1-1/8	1-1/16	1-1/16	1-1/32	
Fiber length (Fibrograph):						
Upper half mean-----inches:	1.12	1.17	1.08	1.10	1.06	
Uniformity ratio-----	78	79	81	79	78	
Micronaire-----reading 1/:	3.6	3.9	4.7	4.1	4.1	
Fiber fineness-micrograms per in. 2/:	3.6	3.5	4.5	3.9	3.9	
Fiber maturity-----index 2/:	75	80	82	79	79	
Fiber tensile strength (Pressley):						
1/8" gauge-----index 3/:	114	121	114	110	107	
Zero gauge-----1,000 p.s.i.:	84	91	82	81	83	
Nonlint content-----percent:	2.8	2.0	3.6	4.8	4.2	
Color of raw cotton: 4/						
Reflectance-----Rd:	78.8	79.5	75.5	69.6	72.4	
Yellowness-----+b:	8.5	8.3	7.6	7.2	6.6	
Sugar content-----percent:	0.4	0.3	0.2	0.0	0.1	
Acid-alkaline value-----pH units 5/:	6.3	6.6	6.6	8.2	7.0	
<u>Processing Results</u>						
Picker and card waste-----percent:	8.4	7.0	9.4	10.7	9.6	
Comber waste-----percent:	16.6	15.3	15.6	17.6	17.3	
Neps----per 100 sq. in. of card web:	19	13	14	21	16	
Yarn skein strength: 6/						
22s-----pounds:	137(157)	140(159)	125(141)	122(138)	125(140)	
50s-----pounds:	50(56)	51(57)	45(51)	43(49)	45(51)	
Average break factor-----7/:	2757(3127)	2815(3174)	2500(2826)	2417(2743)	2500(2815)	
Yarn appearance: 6/						
22s-----grade:	C (C+)	C+ (B)	C+ (B)	C+ (B)	C+ (B)	
50s-----grade:	D+ (C+)	C (C+)	C (C+)	C (C+)	C (C+)	
Average index-----8/:	85 (100)	95 (105)	95 (105)	95 (105)	95 (105)	

Table 3.--Results of classification, fiber tests, and carded and combed (in parentheses) yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 6-1/2 pounds per hour, crop of 1956--Continued

Test item	Delfos 9169			Deltapine 15		
	Arkansas		Mississippi	Arkansas		Mississippi
	Black Oak	Pine Bluff	Leland	Leachville	Tunica	
	Late	Late	Midseason	Late	Late	
<u>Raw Cotton Quality</u>						
Grade (official standards)	SIM	M	SIM+	M	IM	
Staple length-----inches	1-1/16	1-1/32	1-1/16	1-1/16	1-1/16	
Fiber length (Fibrograph):						
Upper half mean-----inches	1.08	1.07	1.09	1.08	1.04	
Uniformity ratio-----	76	75	75	81	79	
Micronaire-----reading 1/	4.2	4.1	4.3	4.4	4.1	
Fiber fineness-micrograms per in. 2/	4.2	4.1	4.0	4.3	4.1	
Fiber maturity-----index 2/	79	78	81	80	77	
Fiber tensile strength (Pressley):						
1/8" gauge-----index 3/	102	101	106	107	103	
Zero gauge-----1,000 p.s.i.	81	78	79	80	79	
Nonlint content-----percent	3.6	2.5	3.8	2.8	4.4	
Color of raw cotton: 4/						
Reflectance-----R _d	75.4	72.0	74.6	72.3	69.8	
Yellowness-----+b	6.8	8.6	8.6	7.5	7.5	
Sugar content-----percent	0.2	0.1	0.2	0.2	0.2	
Acid-alkaline value----pH units 5/	6.8	7.5	6.7	6.5	7.0	
<u>Processing Results</u>						
Picker and card waste-----percent	8.5	7.6	9.6	8.2	10.9	
Comber waste-----percent	16.6	17.8	17.8	15.2	17.9	
Neps----per 100 sq. in. of card web	15	14	18	10	19	
Yarn skein strength: 6/						
22s-----pounds	122(135)	118(132)	120(134)	130(142)	117(130)	
50s-----pounds	42(48)	43(49)	43(48)	46(51)	41(46)	
Average break factor-----7/	2392(2685)	2373(2677)	2395(2674)	2580(2837)	2312(2580)	
Yarn appearance: 6/						
22s-----grade	B (B+)	B (B)	C+ (B)	B (B+)	C+ (B)	
50s-----grade	C+ (B)	C+ (B)	C (C+)	C+ (B)	C (C+)	
Average index-----8/	105 (115)	105 (110)	95 (105)	105 (115)	95 (105)	

Table 4.--Results of classification, fiber tests, and combed yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 4-1/2 pounds per hour, crop of 1956

Test item	Pima S-1		
	Arizona		New Mexico
	Marana	Safford	Las Cruces
	Early	Early	Early
<u>Raw Cotton Quality</u>			
Grade (official standards)	2	2	3
Staple length-----inches	1-3/8	1-7/16	1-7/16
Fiber length (array):			
Upper quartile-----inches	1.43	1.43	1.46
Coefficient of variation----percent	29	27	24
Micronaire-----reading <u>1</u> /	3.7	3.8	3.7
Fiber fineness---micrograms per in. <u>2</u> /	3.4	3.4	3.4
Fiber maturity-----index <u>2</u> /	77	80	77
Fiber tensile strength (Pressley):			
<u>1</u> /8" gauge-----index <u>3</u> /	151	156	152
Zero gauge-----1,000 p.s.i.	94	95	95
Nonlint content-----percent	2.2	2.2	2.7
Color of raw cotton: <u>4</u> /			
Reflectance-----R _d	69.8	69.5	67.5
Yellowness-----+b	10.7	10.3	10.2
Sugar content-----percent	0.2	0.2	0.1
Acid-alkaline value-----pH units <u>5</u> /	6.4	6.4	6.5
<u>Processing Results</u>			
Picker and card waste-----percent	8.8	9.1	9.5
Comber waste-----percent	15.9	14.1	12.5
Neps-----per 100 sq. in. of card web	6	4	8
Yarn skein strength:			
50s-----pounds	72	74	74
80s-----pounds	39	40	39
Average break factor----- <u>7</u> /	3360	3450	3410
Yarn appearance:			
50s-----grade	A	A	A
80s-----grade	B+	B+	B+
Average index----- <u>8</u> /	125	125	125

FOOTNOTES

1/ Fiber fineness and maturity in combination, as measured on untreated samples using the curvilinear scale for upland cotton and the special scale for American-Egyptian cotton.

2/ Determined by the Causticaire method using the Micronaire instrument.

3/ Index of 100 equals a Pressley ratio of 3.19, which was the average strength of 1954 commercial crop of upland cotton in the United States.

4/ Determined by the Nickerson-Hunter Colorimeter on raw stock. Rd values indicate percent reflectance from 0 to 100 and +b values indicate degree of yellowness.

5/ Values below 7.0 indicate acidity. Values above 7.0 indicate alkalinity which when associated with abnormally low sugar content may indicate fiber degradation from the action of micro-organisms.

6/ Data in parentheses are for combed yarn process.

7/ Based on yarn skein strength of the two yarn numbers spun.

8/ Based on two numbers spun. Index of average quality equals 100.

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